AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

 (Currently Amended) A semiconductor device comprising a substrate of a first semiconductor material and a compound layer of said first semiconductor material and a second semiconductor material disposed on the substrate, the ratio of the first material to the second material of the compound layer being decreased away from the substrate towards the upper surface of the compound layer, wherein the rate of decrease of the ratio varies—within—said layervaries linearly on opposite sides of an intermediate point disposed within the layer at which the rate varies.

(Original) A semiconductor device as claimed in claim 1, in which the rate of decrease of the ratio increases away from the substrate towards the surface of the compound layer.

3.-6. (Cancelled)

- (Previously Presented) A semiconductor device as claimed in claim 1, in which a final layer comprising said first material is deposited on the surface of the compound layer.
- (Previously Presented) A semiconductor device as claimed in claim 1, in which the first material is silicon.
- (Previously Presented) A semiconductor device as claimed in claim 1, in which the second material is germanium.
- (Previously Presented) A semiconductor device as claimed in claim 1, in which a
 composition of the compound layer at the upper surface thereof comprises 10-50% of said
 second material.

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11. (Original) A semiconductor device as claimed in claim 10, in which the composition of the compound layer at the upper surface thereof comprises substantially 20% of said second

material.

12. (Cancelled)

13. (Currently Amended) A method of manufacturing a semiconductor device, the method

comprising providing a substrate of a first semiconductor material, depositing a compound layer

of said first semiconductor material and a second semiconductor material on the substrate such

that the ratio of the first material to the second material of the compound layer decreases away

from the substrate towards the upper surface of the compound layer, the rate of decrease of the

ratio being varied within the layerlinearly on opposite sides of an intermediate point disposed

within the layer where the rate is varied.

14. (Original) A method as claimed in claim 13, in which the rate of decrease of the ratio is

increased away from the substrate towards the surface of the compound layer.

15,-16, (Cancelled)

17. (Previously Presented) A method as claimed in claim 13, in which the ratio of the first

material to the second material of the compound layer is decreased in part by decreasing a

temperature at which the layer is deposited from the substrate towards the surface of the

compound layer.

18.-22. (Cancelled)

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